Uniden®

AppCam 21

User's Manual

Iss. 1, June 2014

CUSTOMER CARE

At Uniden®, we care about you!

If you need assistance, please do NOT return this product to your place of purchase. Our customer care specialists are available to serve you.

Please keep your sales receipt as it is your proof of warranty.

Quickly find answers to your questions by:

1. Reading this owner's manual.
2. Visiting our customer support website at www.uniden.com.
3. Calling our customer care specialists at 1-800-658-8068.

Images in this manual may differ slightly from your actual product.

microSD is a ® of SanDisk Corporation.

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Uniden surveillance products are not manufactured and/or sold with the intent to be used for illegal purposes. Uniden expects consumer's use of these products to be in compliance with all local, state and federal law. For further information on video surveillance and audio recording legal requirements, please consult your local, state and federal law.

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PLEASE READ BEFORE YOU START

WIRELESS DEVICES OPERATING RANGE

Ensure the signal reception viewed between the camera(s) and the Wi-Fi router. If necessary, reduce the distance between the camera(s) and the Wi-Fi router to improve overall system performance.

IMPORTANT SAFETY PRECAUTIONS

Damages caused by non-compliance with this operating manual will void the warranty! We will not assume any liability for damages to items or persons caused by improper handling or non-compliance with the safety notices! Any warranty claim will be null and void in such cases.

- Do not drop, puncture or disassemble the camera; otherwise the warranty will be voided.
- Never tug on the power cords. Use the plug to unplug it from the outlet.
- Do not expose the camera to high temperature or leave it in direct sunlight. Doing so may damage the camera or cause temporary camera malfunction.
- Use the devices with care. Avoid pressing hard on the camera body.
- For your own safety, avoid using the camera or power off the camera when there is a storm or lightning.
- Disconnect the power adapter during long periods between usage.
- Use only the accessories and power adapters supplied by the manufacturer.

OVERVIEW

Uniden's AppCam system works with your smartphone or wireless device to create a powerful home security network. No PC interface is needed to view video on your smartphone or wireless devices. Connect the camera through your Wi-Fi router, set up the network on your mobile device, and install the cameras; your network is up and running. Connect your wireless device to your router and use Uniden's AppCam Lite app to access your cameras from where you have a WiFi connection. The wireless AppCam offers superior quality video with true color. It is suitable for day or nighttime use.

As dust, grime, and cobwebs accumulate on the camera glass, they can reflect light from the infrared LED and might lower video quality. Periodically clean the lens glass with a soft cloth.

FEATURES

System

- No PC required
- Direct connection to router
- Wi-Fi connection to router
- P2P connection
- Records VGA up to 30fps
- Manual/motion recording to microSD (not included)
- Supports up to 32GB microSD (not included)
- High quality H.264 video
- Audio reception

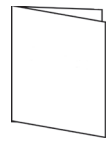
AppCam 21 Indoor Camera

- Compact design
- Night vision range – 25 feet
- Built-in microphone
- microSD card slot (microSD card not included)

Uniden's AppCam App

- Multiple camera viewing and management from single app
- Remote access to recorded video
- Remote snapshot & recording control
- Event notification/email alert

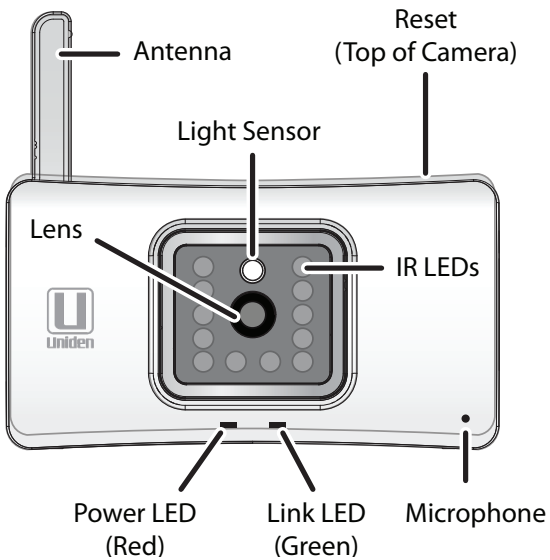
WHAT'S INCLUDED

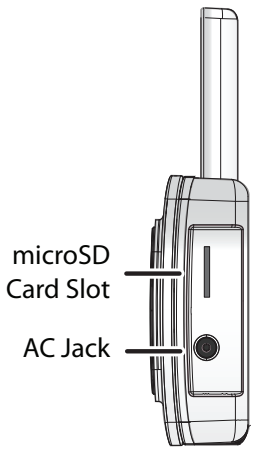
		
Camera (1) Stand (1)	5V/1A Power Adapter (1)	Quick Connect Guide

If any items are missing or damaged, contact our Customer Care Line immediately at 1-800-658-8068.

Never use damaged products!

PARTS OF THE CAMERA





INITIAL CAMERA SETUP

The Uniden AppCam Lite app can monitor up to four AppCam 21 cameras on its network. You can purchase additional cameras locally or through our website at www.uniden.com.

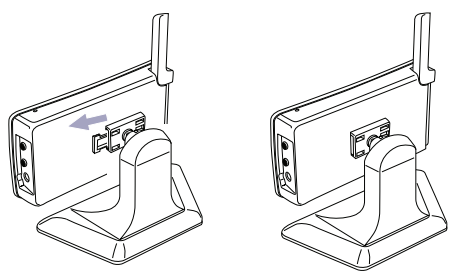
Use these procedures to connect the first camera to your network.

PREREQUISITES

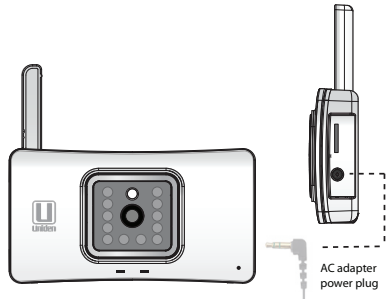
- Your router must support WEP/WPA/WPA2 security and it must be turned on.
- You must have a WiFi-enabled mobile device such as an Android or iOS smartphone or tablet.
- Your network must support DHCP protocol and the DHCP option is ON.
- You must have your router password.

STEP 1 – SET UP CAMERA AND APP

1. Attach the stand to the camera.



2. Connect the camera to power (120V AC). Insert the AC adapter power plug into the camera's DC adapter input jack. Plug the other end into a 120 volt AC (standard indoor) power outlet.
3. The red Power LED turns on. If it doesn't, try reconnecting the AC adapter, making sure the power outlet isn't controlled by a wall switch.



4. After a few seconds, the green Link LED blinks once every 2 seconds.
5. Download the Uniden AppCam Lite app from the Apple iTunes store (iOS) or from Google Play (Android) to your mobile device.

STEP 2 – CONNECT TO CAMERA'S WIFI APP

Prerequisites

- Make sure your smartphone/device is connected to the same wireless network as your camera.

Android Users

Begin with Step 1.

iOS Users

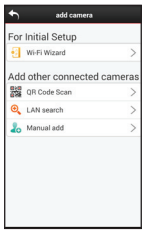
- From iOS *Settings/WiFi*, select your AppCam and enter *12345678* (default password) to connect to the camera.
- Open the Uniden AppCam Lite app. Select *Tap here to add camera*.
- Follow the prompts until the app asks you to verify that you are connected to the camera's WiFi. Tap *Next*.
- Continue with Step 4.

1. Open the app. The *Tap here to add camera* prompt displays.

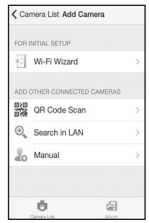
Android

iOS

2. Select *Tap here to add camera*. The Add Camera screen displays.



Android

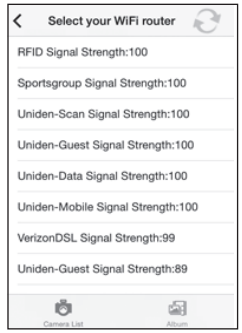


iOS

3. Follow the Wizard prompts to:
   - Indicate your camera's green LED indicator flashes once every two seconds.
   - Verify that your device is connected to your camera's WiFi (default password is 12345678). Check your connection by tapping *WiFi Setting*. The last 11 digits of the 15-digit DID on the back of the camera should match the SSID (XXXXXX-AAAAA) on your screen.
4. Confirm that your phone is connected to your camera's WiFi. Tap *Next*.
5. Enter your user name and the password (defaults are admin and 123456). Tap *Next*. A list of routers displays.

Select your WiFi router
SSID : Uniden-Guest Signal strength : 100
SSID : Uniden-Scan Signal strength : 100
SSID : Uniden-Mobile Signal strength : 100
SSID : VerizonDSL Signal strength : 100
SSID : Uniden-Data Signal strength : 100
SSID : 000231-WGJGF Signal strength : 94
SSID : RFID Signal strength : 89
SSID : Sportsgroup Signal strength : 89
SSID : Uniden-Guest Signal strength : 63
SSID : Uniden-Scan Signal strength : 63
SSID : Uniden-Mobile Signal strength : 63
SSID : Uniden-Data Signal strength : 63

Android



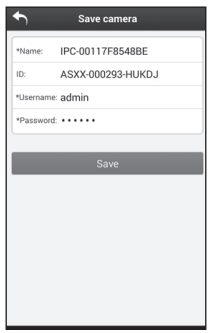
iOS

STEP 3 – CONNECT DEVICE TO ROUTER

6. Select the router you want the camera to use to connect to the internet and then enter the router's password. Tap *Done* and then *Next*.

   Capitalization counts! Be sure that all capital letters in the password are capitalized in your entry.

7. Your IP camera reboots to save the changes. When the green LED is steady on, tap *Next*. The *Save Camera* screen displays.



Android

iOS

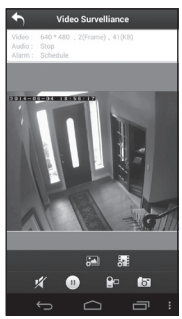
STEP 4 - SAVE CAMERA ONTO NETWORK

1. On the *Save Camera* screen, name the camera. Tap *Save* to finish setup. The camera now displays on the app's home screen with the camera added to the list.

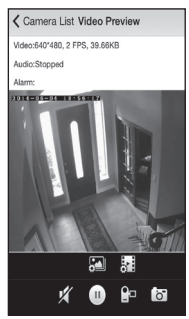
Android

iOS

2. Tap that camera listing to view live video or to manage other camera operations.



Android



iOS

USING THE APP

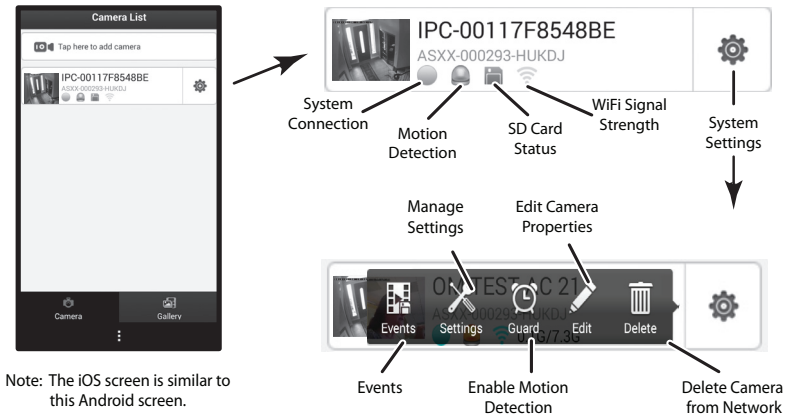
After you've set up your network, use the AppCam Lite app to manage your AppCam operations, take snapshots, start and stop live video recording, and view live or recorded video on your smart phone or tablet device. You can have up to 4 independant AppCam cameras on the network.

The AppCam Lite app operates through icons on screens. The three main operation screens are:

- *Camera List* screen. Provides a list of cameras on your network, an option to add another camera, and icons to control operation. Tap to display the *Camera File* screen.
- *Camera File* screen. Displays the number of snapshots and video files. Tap that icon bar to view the files. Tap to return to the *Camera List* screen.
- *Video Surveillance* screen. From the *Camera List* screen, tap the camera whose live video you want to view. The *Video Surveillance* screen displays. Various icons allow you to take snapshots, record, and set the sound for recording live video.

CAMERA LIST SCREEN

When you open the AppCam Lite app, cameras on your network display on the *Camera List* screen. Up to 4 icons may display in each camera row at any time depending on various statuses, plus . This icon allows access to specific camera settings and features. The icon accesses your saved snapshots and video files. Tap to to return to the main *Camera List* screen.



Note: The iOS screen is similar to this Android screen.

Camera List Main Icons

Icon	Name	Description
	System Connection Status	There are three different System Connection icons: • Offline - • Connecting - • Connected -
	Motion Detection	Displays if Motion Detection is triggered.
	SD Card Status	Displays in RED if no card is Installed. Does not display if card is installed.
	WiFi Signal Strength	Displays waves to indicate signal strength.

Icon	Name	Description
	System Settings	Displays a set of icons to set camera status and operation. See the following table.
	Return to Camera List	Tap to return to Camera List screen from the Camera File screen.
	Gallery	The *Camera File* screen displays a list of snapshots and recorded video files in your smartphone or tablet.

System Settings Icons

Tap to access the following settings and operations.

Icon	Name	Description
	Events	Displays a list of recorded files.
	Manage Settings	Displays a list of AppCam 21 settings you can edit to customize your camera. (These settings are described after this table.)
	Guard	Turns Motion Detection on and off.
	Edit	Edit camera properties such as name, password, etc.
	Delete	Delete this camera from network.

Manage Settings Icon

Setting	Description
Device Status	Displays device properties such as Firmware version, Web UI Version, Device ID., etc.
Device Basic Settings	Time Zone Settings - Sync with NTP server or phone time, Time Zone, and Daylight Saving Time. The most commonly used time zones for this system are: • GMT-05:00 - Eastern Standard • GMT-06:00 - Central Standard • GMT-07:00 - Mountain Standard • GMT-08:00 - Pacific Standard • GMT-09:00 - Yukon Standard • GMT-10:00 - Alaska-Hawaii Standard
	Password - Change and save your User Name and password.
Network Settings	IP Settings - Obtains IP from DHCP Server (on/off)
	WiFi Security - Displays WiFi security information
	Mail Settings - Allows you to configure the email environment including sender and receiver email configuration.
Record and Alarm Settings	Enable Recording - ON/OFF
	Edit Schedule - Set up times to automatically record.
	SD Card Format - Wipe the SD Card (Yes/No)
	Enable Motion Detect - On/Off Slider
	Sensitivity - level Slider (1 - 10)
Tools	Restore Factory Settings - Lose phone settings
	Reboot Device - Restart your device

CAMERA FILE SCREEN

Tap on the *Camera List* screen to display this screen. The Camera File screen displays a list of files saved files.

Tap , then tap the Camera/Video file counter. A list snapshots and video files displays.

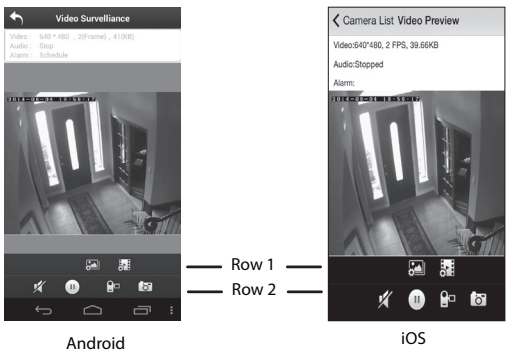
To view the snapshot or video file, tap on it. You can also tap and then tap *Open* to view the file.

To delete the snapshot or video file, tap , then tap on . The file is deleted.

VIDEO SURVEILLANCE SCREEN

On the *Camera List* screen, tap the camera whose video you want to view. The Video Surveillance screen displays live video from that camera. The icons that display on this screen let you act on the live video, taking snapshots, starting and stopping recording, etc.

VIDEO SURVEILLANCE SCREEN



ROW 1		
Camera		This function lets you adjust the following settings for your camera: • Brightness • Contrast • Saturation • Hue • Sharpness • Flip Image • Mirror Image
Video		• Set video recording quality to either 320 x 240 or 640 x 480. • Set the auto cache time in milliseconds (ms).
ROW 2		
Mute		Turn the microphone on or off.
Live Video On/Off		Turn Live Video on and off.
Start/Stop Recording Video		Tap this icon to start recording video. Tap it again to stop recording.
Snapshot		Tap the icon to take a picture of live video.

OPERATIONS

To Do This ...	Do This:
View Live Video	Tap the camera on the *Camera List* screen. The *Video Surveillance* screen displays with live video.
Start Recording	From the *Video Surveillance* screen, tap . The camera will record for 2 minutes unless you tap the icon again to stop recording.
Mute the Recording Microphone	From the *Video Surveillance* screen, tap .
Take a Snapshot	1. From the *Video Surveillance* screen, tap . 2. The snapshot is saved on your mobile device.
View Snapshots and Recorded Files on Smartphone or Device	1. From the *Camera List* screen, tap . 2. Tap the Snapshot/Video File counter. 3. Tap your selection from the list of snapshots and recorded files that now display.
View Snapshots and Recorded Files on Computer	1. Remove the microSD card from the camera and insert it (use an adapter if necessary) intop your computer's SD card slot. 2. Navigate to the microSD card and locate your files. 3. Copy them to the computer. 4. Download and install the VLC player to open recorded files. Go to http://www/videolan.org.vlc. Run VLC player.
Delete Snapshots/Recorded Files	1. From the *Camera List* screen, tap . 2. Tap on the snapshot/recorded file listing you want to delete. 3. Tap to delete the file.

To Do This ...	Do This:
Adjust Snapshot Settings	From the *Video Surveillance* screen, tap .
Adjust Recorded Video Settings	From the *Video Surveillance* screen, tap .
Adjust Motion Sensitivity	1. From the *Camera List* screen, tap and then . 2. Motion Sensitivity is under the Record and Alarm Settings listing.
Change Password	1. From the *Camera List* screen, tap and then . 2. PasswordSave is under the Record and Device Basic Settings listing.
Adjust the time zone and Daylight Savings Time	1. From the *Camera List* screen, tap and then . 2. These settings are under the Device Basic Settings listing.

MAINTAINING YOUR SYSTEM

TAKING CARE OF YOUR CAMERA

When dust and grime builds up on the camera lens and glass, it affects night vision capability. The infrared light reflects off of the dust and grime, limiting the camera's "vision." Use a microfiber cloth to regularly clean the cameras or when night vision video is cloudy or unclear.

MANAGING RECORDED FILES

When your microSD card is full, new recordings automatically record over the oldest recorded files. If there are files you need to keep, transfer them to your computer for storage and remote viewing. Otherwise, reformat your microSD card every 4 to 6 weeks.

Copying Files from the microSD Card to Your Computer

1. Remove the microSD card from the camera.
2. Insert it into your computer's SD card slot. Use an adapter if necessary.
3. Navigate to the microSD card and locate your files.
4. Copy them to the computer. These files can now be deleted from the microSD card or the microSD card can be formatted.

ADDING ADDITIONAL CAMERAS

You may wish to add additional cameras to your system. Purchase these cameras through your local retailer or through our website, www.uniden.com. Add these cameras to your existing network through any of the following three procedures.

QR Code Scan, LAN Search, and Manual Add will not work for the first camera.

QR CODE SCAN

1. Aim your phone's camera at the QR code on the back of your camera. When it recognizes the QR code, the *Save Camera* screen displays.
2. Name the camera, and then enter the default password (123456). The new camera now displays on the *Camera List* screen.

LAN SEARCH

Tap *LAN search*. The app searches the LAN for cameras.

MANUAL ADD

1. Tap *Manual Add*. The *Save Camera* screen displays.
2. Enter the following information for the camera:
   - Name - Hallway, Nursery, etc.
   - ID - The full 15-digit DID on the back of the camera.
   - Username - Default = admin.
   - Password - Default = 123456.

     Tap *Save*.

TROUBLESHOOTING

Before going through these troubleshooting procedures, verify that you have the most current version of this manual. Go to www.uniden.com and select Owner's Manuals from the Support tab's drag-down list. Navigate to your model's manual and open it. Check the issue and date on the front cover.

HOW TO IMPROVE THE WIRELESS SIGNAL QUALITY

If possible, remove obstacles in between camera and router that might reflect the signal. These could include furniture, cabinets, and walls. If the wireless signal is not improved, relocate the camera closer to the router.

If...	Try this...
The app cannot find the camera	• Make sure your network supports DHCP protocol. • Make sure that the DHCP option is turned on. • Make sure the camera and your mobile device connect to the same Wi-Fi router. • Make sure the Wi-Fi router is activated. • Make sure the camera is properly powered on. • Use the "Manual Add" function to manually add the camera.
No image appears	• Make sure the power adaptor is not damaged or defective and is plugged into an electrical outlet with power. • Relocate the camera to obtain the best reception of wireless signals. • Make sure the camera is properly configured in the app.
Poor image quality	• Clean the camera lens using a lens cleaning cloth. Spots or dust on the lens can also cause image quality problems.

If...	Try this...
Motion detection is not working	• Make sure the sensitivity setting is not turned OFF. (Set sensitivity through Settings/Manage Settings.) • Adjust the sensitivity of the motion sensor. (Set sensitivity through Settings/Manage Settings.) • In motion detection mode, a moving object within the camera viewing angle is necessary to trigger the motion sensor for recording.
Bright white spots appear at nighttime	The camera's infrared LEDs produce invisible light that reflects off surfaces such as glass. Install the camera on the other side of windows or place the lens flush against the surface to improve the night vision.
Memory card error	Make sure the memory card is correctly inserted and formatted. ***Please backup the data before formatting. This Format function will erase all data on the memory card.***
Wrong date and time are shown	• Make sure you've selected the correct time zone. Unexpected date and time can result in an incorrect recording schedule. (See page 22) (Set Time Zone through Settings/Manage Settings.) • Confirm the system date/time of the mobile device to ensure correct operation. (Set Time Zone through Settings/Manage Settings.)
My smartphone or wireless device cannot find the camera during initial setup.	• Refresh the connection. • Reset your camera to the factory default setting. Insert an unbent paper clip into the hole on top of the camera and press it in for several seconds. The LED begins flashing. Remove the paper clip.

SPECIFICATIONS

General	
Power	100~240V switching power supply DC 5V 1A
Power Consumption	650mA max
Camera Body Dimension	3.2 x 2.9 x 0.8” (90 x 49 x 20 mm)
Weight (Main Body)	4.1 oz (118 g)
Operating Temperature	14° ~ 122°F (-10° ~ 50°C)
Battery Charging Temp	36° - 113° F (0° - 45° C)
Operating Voltage	5V DC @ 1 Amp
Input Voltage	100-240 V AC @ 60 or 50 Hz
Network	
Wireless Technology	IEEE 802.11 b/g/n
Network Connection	Ethernet (10/100 Base-T/Base -TX); Wi-Fi
Network Protocols	TCP/IP, UDP, SMTP, NTP, DHCP, ARP
Simultaneous Views	3 Concurrent sessions
Security	WAP, WPA /WPA2 (TKIP, 128 bit AES)
Cameras	
Image Sensor	1/5” CMOS
Lens	F3.6mm
Antenna	3dBi Waterproof Dipole
Camera Environment	Indoor (50Hz), Indoor (60Hz), Outdoor
Storage memory	microSD
Viewing Angle	H: 40° V: 28°
Min. Illumination	1~8 lux
Low-light resolution	12 IR LEDs with 1 low light sensor
Low-light visibility	10 - 15 feet

Min. Upload Bandwidth Requirements	768 kbps per VGA resolution (per camera)
Audio/Video	
Image Compression	M-JPEG
Image Resolution	VGA 640 x 480 QVGA 320x240
Recording Frame Rate	max 30 FPS
Supported Mobile Internet Device	
Android Requirement	Android 2.2 or above
iOS Requirement	iOS5.0 and above
Hardware Requirement	• Cortex A6 800MHz or above • 1GB internal memory or above

microSD CARD APPROXIMATE RECORDING TIME

- 1GB = 1 hour (640 x 480) or 2 hours (320 x 240)
- 4GB = 8 hours (640 x 480) or 4 hours (320 x 240

Recycling and Disposal Information

- Do not dispose of electronic devices or any of their components (especially batteries and LCD displays) in your municipal trash collection.
- Consult your local waste management authority or a recycling organization like **Earth911.com** to find an electronics recycling facility in your area.

FCC COMPLIANCE

Part 15 Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules and ETSI (EN) 300328. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Move the equipment away from the monitor.
- Plug the equipment into an outlet on a circuit different from that to which the monitor is connected.
- Consult the dealer or an experienced radio/television technician for additional suggestions.

  CAUTION! Any changes or modifications to this equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

RF Exposure Information

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.9") from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

IC COMPLIANCE INFORMATION

Radio Equipment Notice

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept

any interference, including interference that may cause undesired operation of the device. “Privacy of communications may not be ensured when using this device”.

ONE-YEAR LIMITED WARRANTY

Important: Keep your sales receipt for this equipment. Evidence of original purchase is required for warranty service.

WARRANTOR: Uniden America Corporation (“Uniden”) ELEMENTS OF WARRANTY: Uniden warrants, for one year, to the original retail owner, this Uniden Product to be free from defects in materials & craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate & be of no further effect 12 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner’s manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit & return it to you without charge for parts, service, or any other cost (except shipping & handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit.

THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE & ENTIRE WARRANTY PERTAINING TO THE PRODUCT & IS IN LIEU OF & EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL

OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, & you may also have other rights which vary from state to state. This warranty is void outside the United States of America & Canada.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts & accessories originally packaged with the Product. Include evidence of original purchase & a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

Uniden America Service
C/O Saddle Creek
743 Henrietta Creek Rd.
Roanoke, TX 76262

(800) 658-8068, 8 a.m. to 5 p.m., Central, Monday through Friday